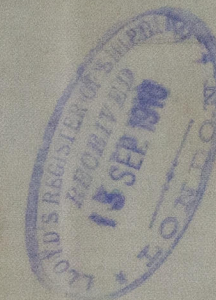




St. <sup>Flowergate</sup> Schildturm <sup>ex</sup> Rhm 1725.



Flowergate  
Profile

W244-0044

Lloyd's Register  
Foundation





27.8.10  
15.9.10

Efficient provision to be made  
for continuing the strength of  
the side plates fitted to the girders  
angles, in way of the pillars and  
at the bulkheads.

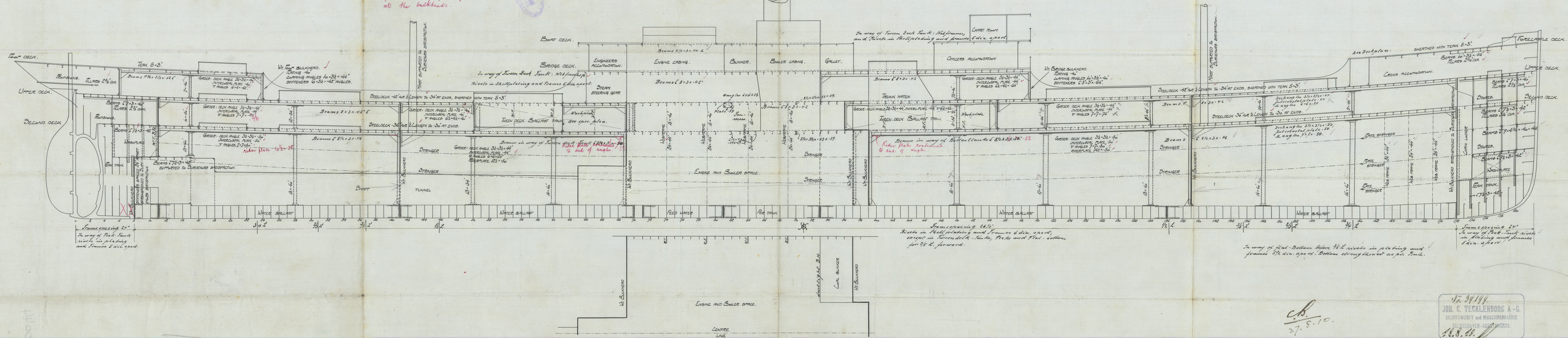
# S.S. 240.-SINGLE SCREW CARGO STEAMER. PROFILE.

RULE LENGTH 401'-0", BREADTH 53'-6", DEPTH M<sup>12</sup> TO UPPER DECK 31'-0", DITTO TO BRIDGE DECK 39'-0".

BREADTH	53.6	BREADTH TO LENGTH	7.58
DEPTH	31.0	DEPTH TO LENGTH TO UPPER DECK	12.94
TRANSV. NELS.	84.5	DEPTH TO LENGTH TO BRIDGE DECK	10.28
LENGTH	401.0	DEPTH, d. FOR FRAMES	19'-2"
LONGITUD. NELS.	33884.5		

CLASS: LLOYD'S REGISTER + 100 A1 STEEL.

SCALE 1/8"=1 FT.



27.8.10.  
J. C. TECKLENBORG A-G.  
SCHIFFSWERFT und MASCHINENFABRIK  
DRESDEN-NEUSTADT



"Flowergate."

s/

<sup>2x</sup> Schildturm

Rhm 1723



278.10

W244-0040

240.



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27.8.10

S.S. 240.

# Arrangement of Steeldecks, Webframes & Bulkheads.

Scale 1:200.

Bridge Deck

Poop Deck

Forecastle Deck

All corners of Hatches & Casings to be strengthened with Doubling plating as per Rule.

Upperdeck

2nd Deck

Nr. 39200.  
JOH. C. TECKLENBORG A.-G.  
SCHIFFSWERFT und MASCHINENFABRIK  
BREITENBURG-GERMANY  
18.8.10.

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of Shipping







*L.S. 240.*  
**Proposed Cargo Steamer.**  
**Midship-Section.**

Rule Length 401' 0"; Breadth 53' 6"; Depth <sup>to</sup> Upperdeck 31' 0" ditto to Bridgedeck 39' 0"

Breadth 53' 5"  
Depth 31' 0"  
Length 401' 0"  
33884.5 Longitudinal N°

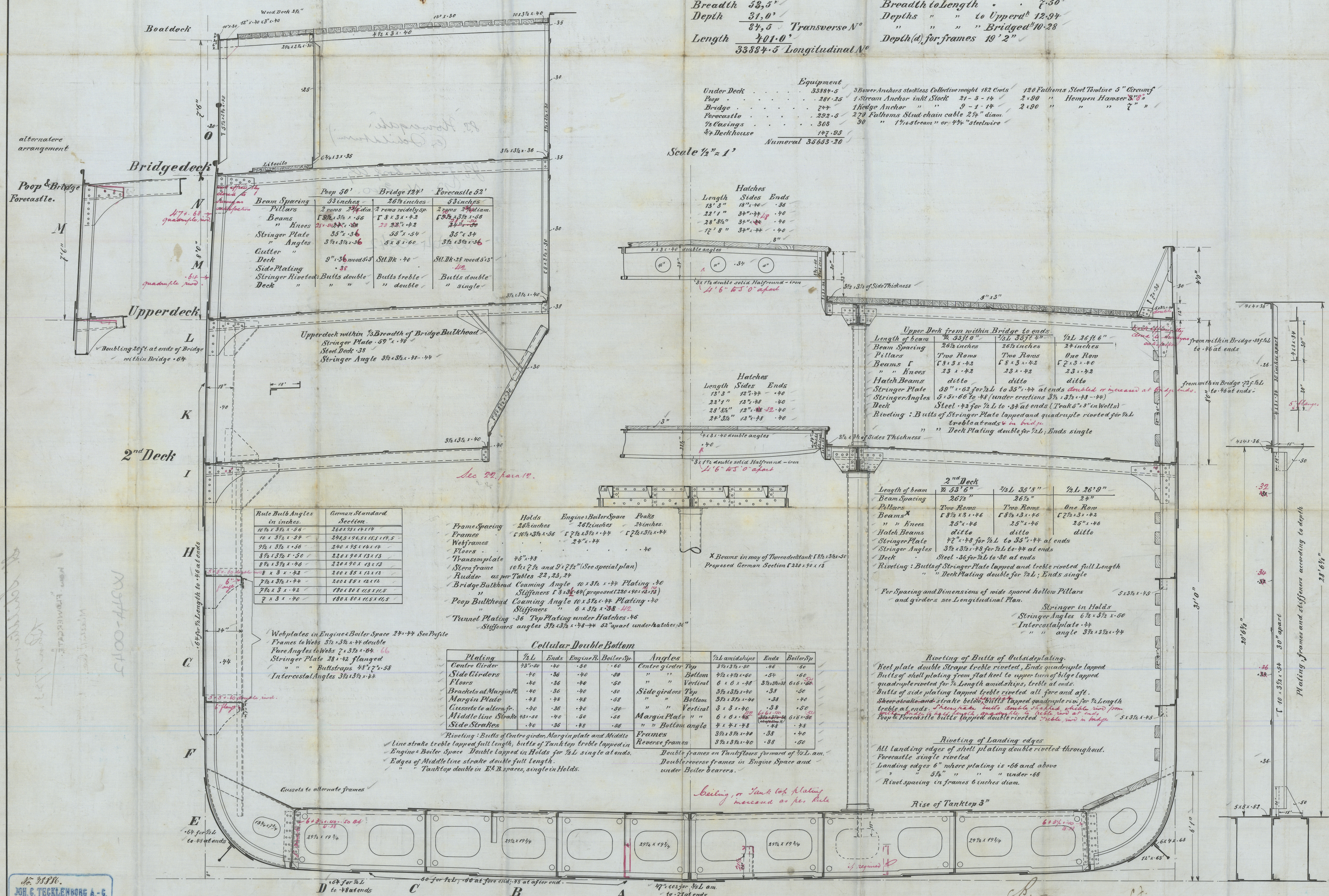
Breadth to Length . 7.50  
Depths " " to Upperd<sup>k</sup> 12.94  
" " " Bridged<sup>k</sup> 10.28  
Depth (d) for frames 19' 2"

**Equipment**  
Under Deck 33884.5  
Pop 281.25  
Bridge 274  
Forecastle 292.5  
7/8 Keesings 308  
3/4 Deckhouse 147.95  
Numerical 35653.26

3 Bower Anchors stockless Collective weight 182 Cwts  
1 Stream Anchor inkt. Stock 21 - 3 - 14  
1 Hedge Anchor " " 9 - 1 - 14  
270 Fathoms Stud chain cable 2 1/2" diam.  
" " " " 1 1/2 stream " or 7/8" steelwire

120 Fathoms Steel Throline 5" Circumf  
2.80 " Hempen Hamser 3" 5/8"  
2.80 " " " 2"  
" " " " 1 1/2"

Scale 1/2" = 1'



Rule Bulk Angles in inches.	German Standard Section
10 1/2 x 3 1/2 x 5/8	268 x 91 x 17 1/2
10 x 3 1/2 x 5/8	244 x 96 x 15 1/2
9 1/2 x 3 1/2 x 5/8	240 x 95 x 14 1/2
8 1/2 x 3 1/2 x 5/8	226 x 90 x 13 1/2
8 1/2 x 3 1/2 x 5/8	220 x 90 x 13 1/2
8 x 3 x 1/2	200 x 85 x 12 1/2
7 1/2 x 3 1/2 x 5/8	200 x 85 x 12 1/2
7 1/2 x 3 x 1/2	180 x 80 x 11 1/2
7 x 3 x 1/2	180 x 80 x 11 1/2

Frame Spacing 20 inches  
Frames 10 1/2 x 3 1/2 x 5/8  
Webframes 10 1/2 x 3 1/2 x 5/8  
Floors 2 1/2 x 3 1/2  
Transomplate 4 1/2 x 3 1/2  
Stern frame 10 1/2 x 3 1/2 and 2 1/2 x 3 1/2 (See special plan)  
Rudder as per Tables 22, 23, 24  
Bridge Bulkhead Coaming Angle 10 x 3 1/2 x 5/8 Plating 40  
Stiffeners 1 1/2 x 3 1/2 x 5/8 (proposed 120 x 40 x 1 1/2)  
Poop Bulkhead Coaming Angle 10 x 3 1/2 x 5/8 Plating 40  
Stiffeners 1 1/2 x 3 1/2 x 5/8  
Tunnel Plating 36 Top Plating under Hatches 48  
Stiffeners angles 3 1/2 x 3 1/2 x 5/8 62" apart under Hatches 36"

Cellular Double Bottom					
Plating	1/2 L	Ends	Engine R.	Boiler Sp.	Angles
Centre Girder	7 1/2 x 5/8	40	50	60	Centre girder Top 3 1/2 x 3 1/2 x 5/8
Side Girders	40	36	40	50	" " Bottom 4 1/2 x 3 1/2 x 5/8
Floors	40	36	40	50	" " Vertical 6 x 6 x 1 1/2
Brackets at Margin Pl.	40	36	40	50	Side girders Top 3 1/2 x 3 1/2 x 5/8
Margin Plate	40	36	40	50	" " Bottom 3 1/2 x 3 1/2 x 5/8
Crosses to allow fr.	40	36	40	50	" " Vertical 3 x 3 x 1/2
Middle line Strake	40	36	40	50	Margin Plate 6 x 6 x 1 1/2
Side Strakes	40	36	40	50	" " Bottom angle 4 x 4 x 1 1/2

Riveting: Butts of Centre girder, Margin plate and Middle line strake treble lapped full length, butts of Tanktop treble lapped in Engine & Boiler Space Double lapped in Holds for 1/2 L single at ends. Edges of Middle line strake double full length. Tanktop double in E & B spaces, single in Holds.

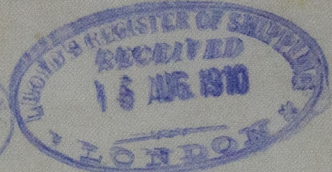
2 <sup>nd</sup> Deck			
Length of beam	53' 6"	1/2 L 35' 8"	1/2 L 26' 9"
Beam Spacing	26 1/2"	26 1/2"	24"
Pillars	Two Rows 1 1/2 x 3 1/2 x 5/8	Two Rows 1 1/2 x 3 1/2 x 5/8	One Row 1 1/2 x 3 1/2 x 5/8
Beams	1 1/2 x 3 1/2 x 5/8	1 1/2 x 3 1/2 x 5/8	1 1/2 x 3 1/2 x 5/8
" " Knees	2 1/2 x 4	2 1/2 x 4	2 1/2 x 4
Hatch Beams	ditto	ditto	ditto
Stringer Plate	3 1/2 x 3 1/2 x 5/8 for 1/2 L to 35' 8" at ends	3 1/2 x 3 1/2 x 5/8 for 1/2 L to 35' 8" at ends	3 1/2 x 3 1/2 x 5/8 for 1/2 L to 35' 8" at ends
Stringer Angles	3 1/2 x 3 1/2 x 5/8 for 1/2 L to 35' 8" at ends	3 1/2 x 3 1/2 x 5/8 for 1/2 L to 35' 8" at ends	3 1/2 x 3 1/2 x 5/8 for 1/2 L to 35' 8" at ends
Deck	Steel 36 for 1/2 L to 35' 8" at ends	Steel 36 for 1/2 L to 35' 8" at ends	Steel 36 for 1/2 L to 35' 8" at ends
Riveting	Butts of Stringer Plate lapped and treble riveted full length	Butts of Stringer Plate lapped and treble riveted full length	Butts of Stringer Plate lapped and treble riveted full length

For Spacing and Dimensions of wide spaced hollow Pillars and girders see Longitudinal Plan.  
Stringer in Holds  
Stringer Angles 6 1/2 x 3 1/2 x 5/8  
Intercostal plate 44  
" " angle 3 1/2 x 3 1/2 x 5/8

Riveting of Butts of Outside plating.  
Keel plate double Straps treble riveted, Ends quadruple lapped  
Butts of shell plating from flat keel to upper turn of bilge lapped quadruple riveted for 1/2 Length amidships, treble at ends.  
Butts of side plating lapped treble riveted, all fore and aft.  
Sheerstrake and strake below Butts lapped quadruple riv. for 1/2 Length treble at ends. Thereafter Butts double riveted, double riv. in Poop & Forecastle Butts lapped double riveted, double riv. in bridge.

Riveting of Landing edges  
All landing edges of shell plating double riveted throughout.  
Forecastle single riveted.  
Landing edges 6" where plating is 66 and above  
" " " " " under 66  
Rivet spacing in frames 6 inches diam.





X244-0043

Starb - barter raf raf 240

Barter raf raf 240

Starb - barter raf raf 240

P.A.

11/8/31

54-64-240



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Heating surface — 2040 square feet.  
 Grate — 43 . . . . .  
 Working pressure — 135 lbs. per sq. inch.  
 Hydrant . . . . . 263 . . . . .

# Steel-Boiler for ship 240.

John C. Tecklenborg A. G.

To be classed 100 At steel.

Premerboven-Geestmünde.

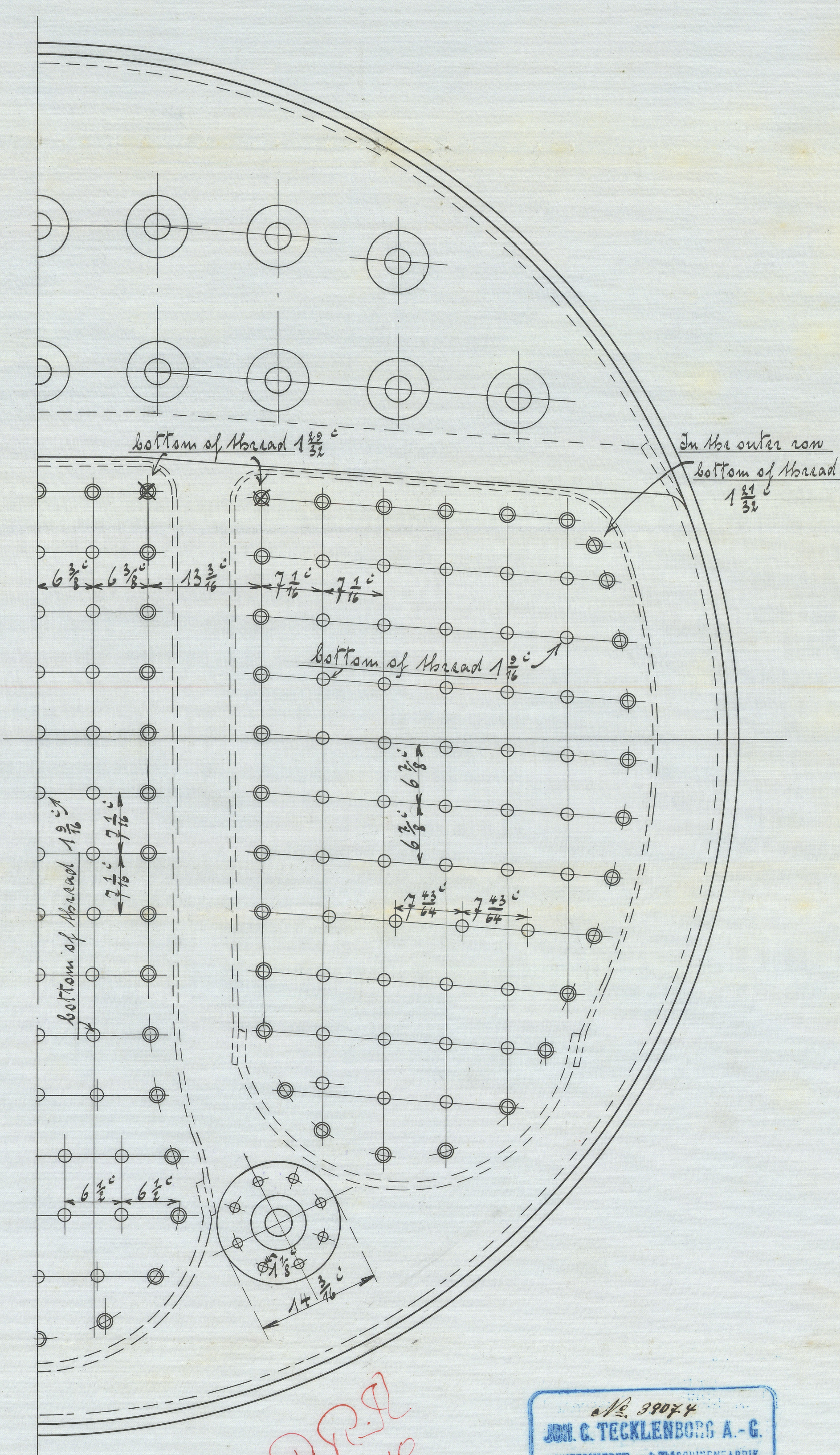
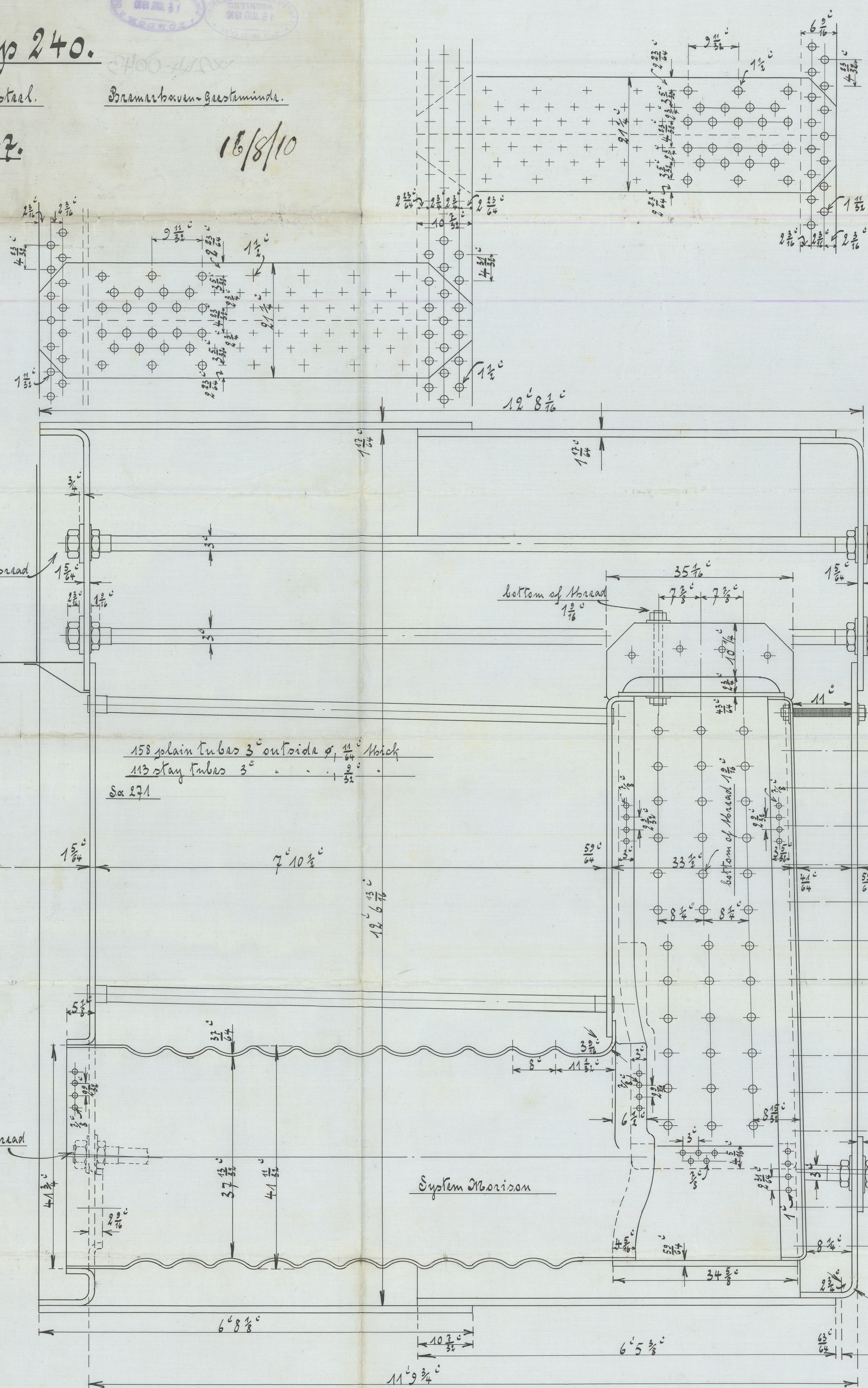
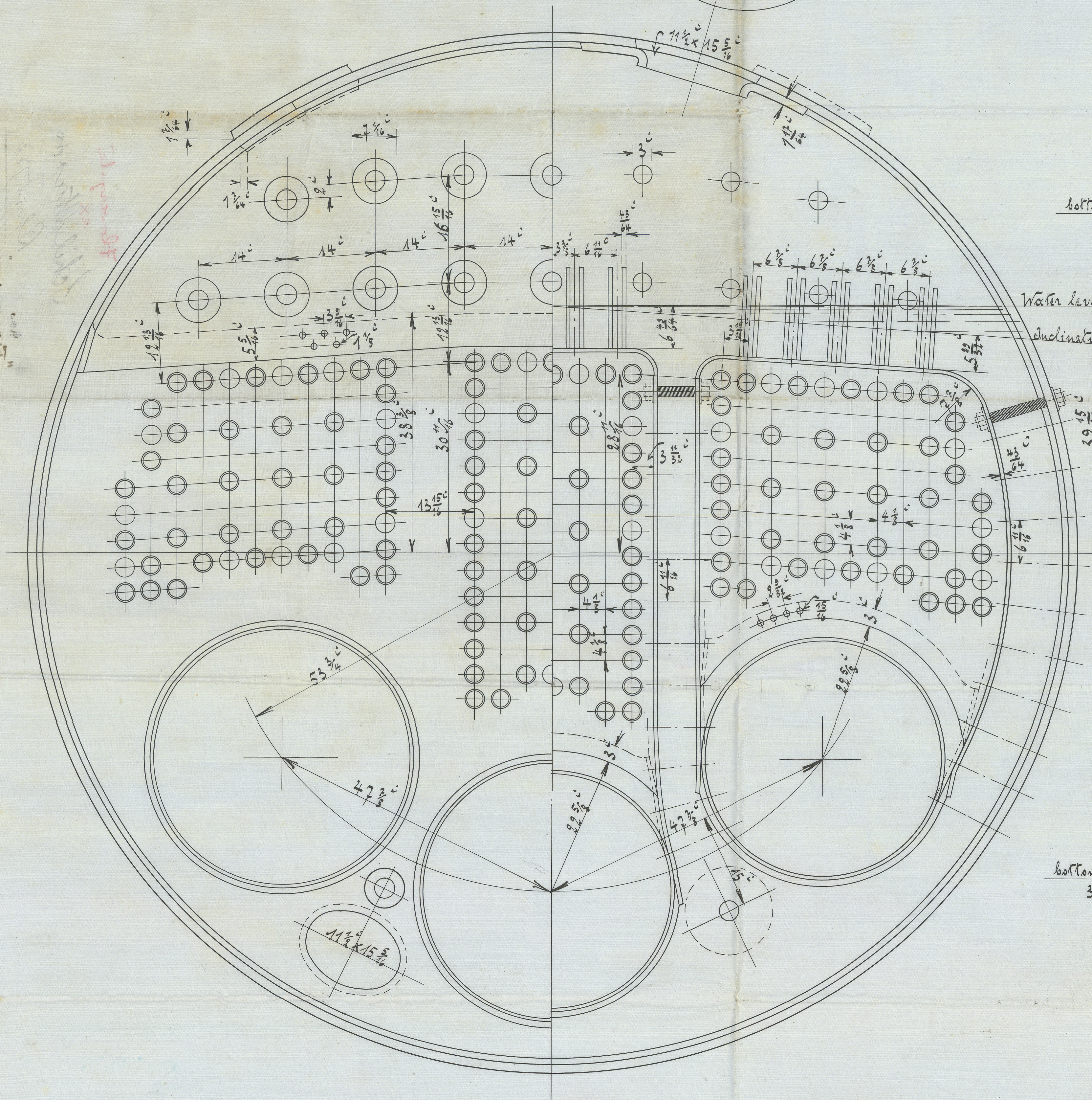
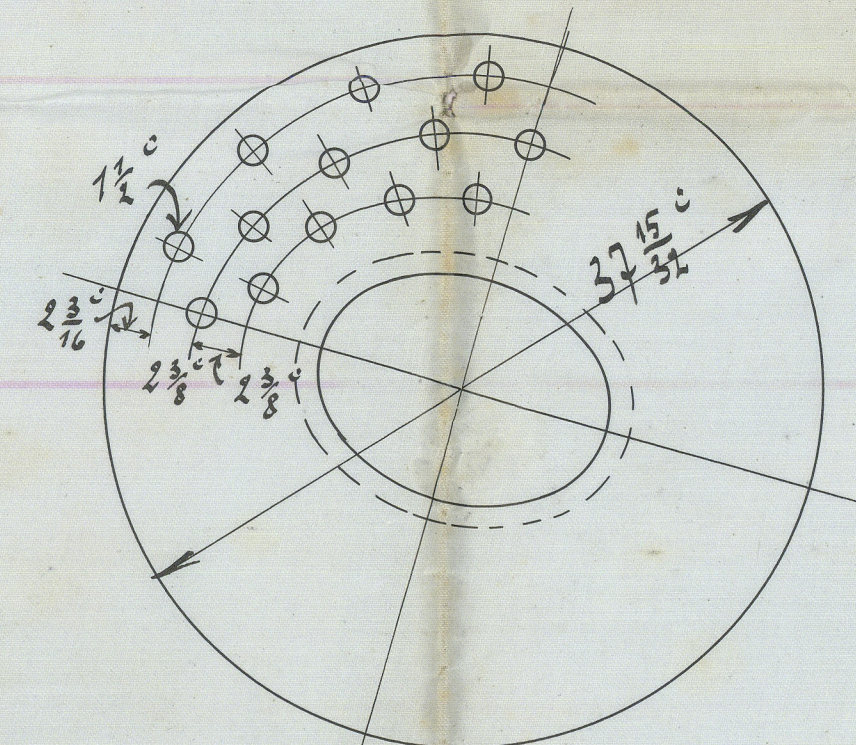
No: 345-46-47.

18/8/10

1:10.

Material: Siemens-Martin-Steel.  
 Shell plating and girders tensile strength of 27,5-33 tons per sq. inch  
 Elongation 26,5 per cent  
 All the other material 22,5-26,7 tons per sq. inch tensile strength  
 Elongation 26 per cent.  
 All stay bolts with nuts and washers material Feinporneisen  
 tensile strength 25,4-28,6 tons per sq. inch

Thickness of shell plate  $T = \frac{138 \cdot 164 \cdot 2}{26 \cdot 84,1} + 2 = \frac{19,03 + 2}{16} = 1 \frac{3}{16}$  inch



Handwritten notes and signatures in red ink, including the date 15.8.10 and the initials J.C.T.





Heating surface — 1076 square feet  
 Grate — 45  
 Working pressure — 121 lbs per sq. inch.  
 Hydrant — 192

Material Siemens-Martin Steel

Elongation 24-22.5 per cent.

All the other material: Tensile strength 249-267 lbs per sq. inch.

Elongation 26%

All stay bolts with nuts and washers, material as above.

Bundle strength 254-266 lbs per sq. inch.

W 244-0041

Flowergate

Thickness of shell plate  $T = \frac{191 \cdot 144 \cdot 4 + 2 \cdot 948 \cdot 8}{11 \cdot 28} = \frac{45}{64}$



No  
 trans to be matted



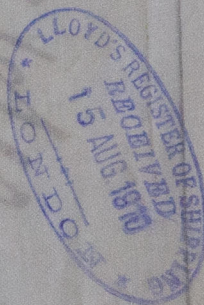
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Lloyd's Register Foundation



Plum 1753

Abundant food - more of same size



W244-0041

041032749

late 1st

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Foundation



7.07



Heating surface — 1076 square feet.  
 Grate — 45 "  
 Working pressure — 121 lbs per sq. inch.  
 Hydraul — 192 "

16/8/10

# Steel Donkey Boiler for ship 240.

Job. C. Tecklenborg A. G.

To be classed 100 At 1 Steel.

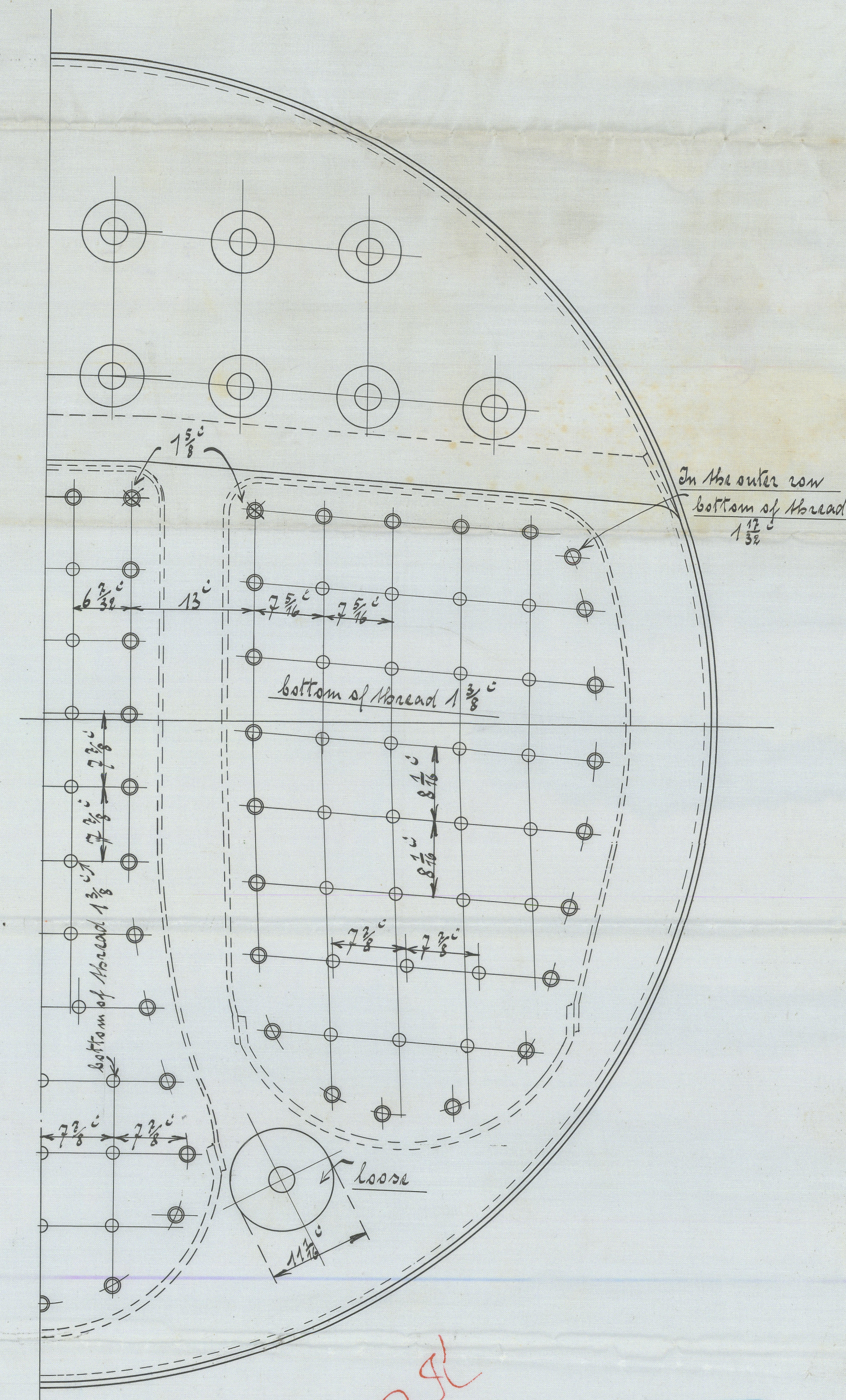
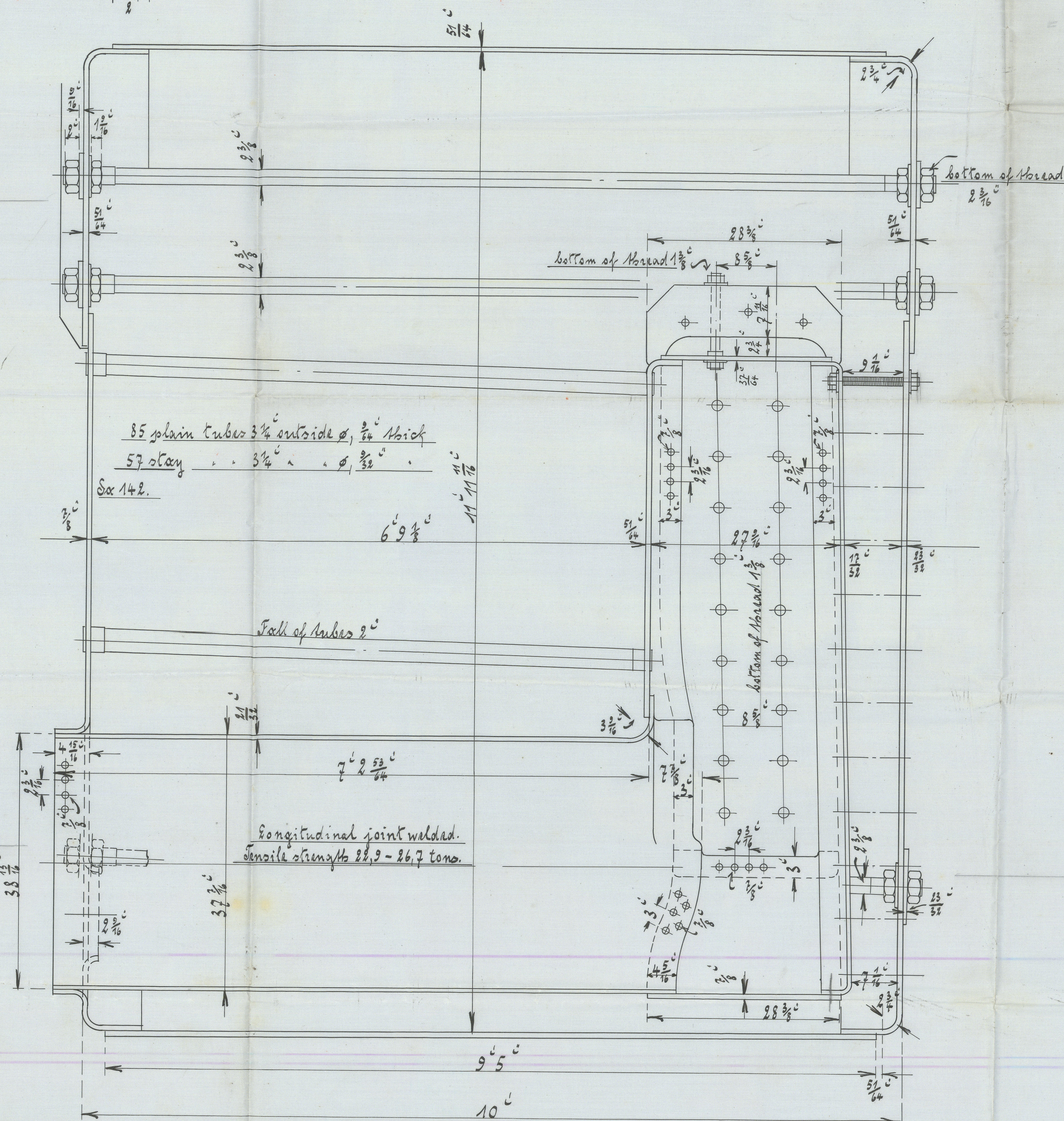
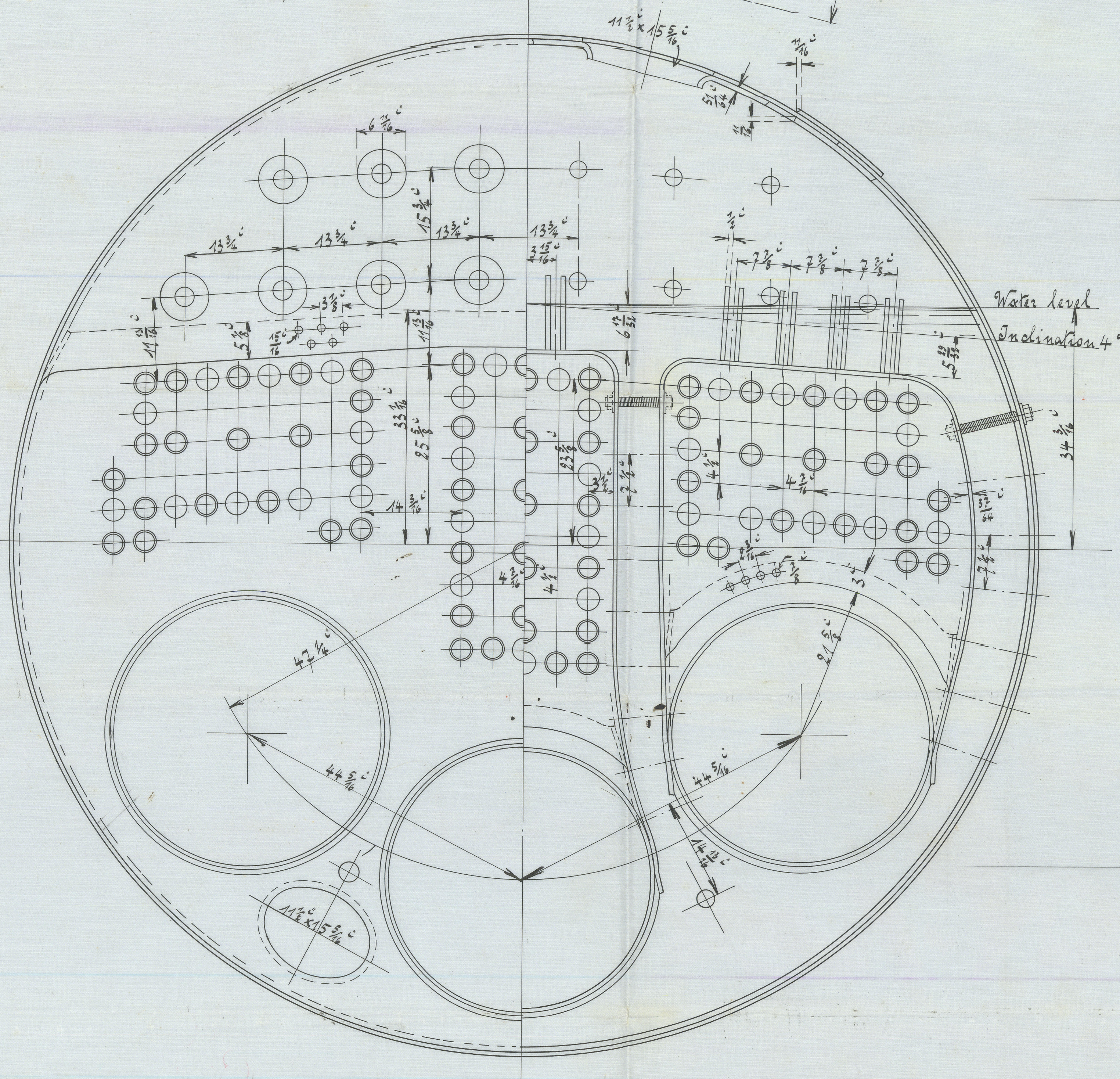
Bremerhaven-Guestimünde.

16: 348.

1:10.

Material: Siemens Martin - Steel.  
 Shell plating, butt straps and girders: Tensile strength 26,7 - 30,5 tons per sq. inch.  
 Elongation 24 - 22,5 per cent.  
 All the other material: Tensile strength 22,2 - 26,7 tons per sq. inch.  
 Elongation 26 %  
 All stay bolts with nuts and washers, material: Reinforced steel.  
 Tensile strength 25,4 - 28,6 tons per sq. inch.

$$\text{Thickness of shell plate } T = \frac{181 \cdot 144 \cdot 4}{82 \cdot 855} + 2 = 9,28 + 2 = 11,28 \approx \frac{45}{64}$$



15/8/10. J.P.J. 15.6.10

JOHN C. TECKLENBORG A. G.  
 BREMERHAVEN-GUESTIMÜNDE  
 11/6. 1910